Ø0.297"

(20 holes) as per Dwg D3391

Page 1

Monday, May 30, 2011 3:08:22 PM Item ID: D3391-023 Accept Setup Start **Revision ID:** Stop Mid Tube Assembly Item Name: **Start Date:** 6/1/2011 Start Oty: 1.00 **Cust Item ID:** Required Date: 6/10/2011 Req'd Qty: 1.00 **Customer:** Reference: Process Plan: MC Run Start Date: |-05-30 Tooling: Approvals: Date: Stop QC: Date: SPC (Y/N): Date: Sequence ID/ Operation Set Up/ Tool # Plan Tool ID Accept Reject Reject Insp. **Work Center ID** Description -**Run Hours** Code Qty **Qty** Number Stamp **Draw Nbr Revision Nbr** D3391 Rev H 100 0.00 Skidtubes Skidtubes 0.00 Memo Skidtubes 1-Cut tube to finish length as per Dwg D3391 2-Identify as D3391-023 3-Drill pilot holes using DT8796 (Do not drill "B" holes) and drill only 1 fwd saddle hole on one side only as per Dwg D3391 4-Open saddles and GHW holes to Ø0.375" exept for fwd saddle hole of detail 5-Remove .030" from Fwd indexing Ridge as per Dwg D3391 11-6-13 6-Remove indexing ridge on Fwd & Aft end of skidtube as per Dwg D3391 7-Deburr 8-Drill #30 pilot holes using wearplate Jig DT8217 Identify Ø0.250" holes with paint marker, 9-Open wearplate holes of D3391-023 assembly detail section G-G to Ø0.250" (14 holes) as per Dwg D3391 and 2 holes in section Detail "J", do not open wearplate holes of section "J" 10-Open wearplate holes of D3391-023 assembly detail section H-H to

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Page 2

Insp.

Monday, May 30, 2011 3:08:22 PM Item ID: D3391-023 Accept Setup Start Revision ID: Stop Mid Tube Assembly Item Name: **Start Date:** 6/1/2011 Start Oty: 1.00 **Cust Item ID:** Req'd Qty: 1.00 Required Date: 6/10/2011 **Customer:** Reference: Run Start Process Plan: Approvals: Date: Tooling: Date: Stop QC: Date: SPC (Y/N): Date: Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Accept Reject Reject **Work Center ID** Description **Run Hours** Code Qty Qty. Number Stamp 11-Open .375" holes to .438" ***do not open fwd saddle holes*** ---12-Locate D3391-021 in D3391-023 at 9.00" (see view z-z)

13- Transfer drill one fwd saddle hole only to .188" dia, transfer drill all remaining fwd saddle holes using DT 8149 locating from previusly drill .188" dia hole, using t-pins and clicos to ensure perfect allingment, open up previusly, transer drilled pilot holes in D3391-023/-021 to 0.438" dia. in D3391-021

14- Transfer drill 2 wearplate holes into D3391-021 using DT8217, locating from two previusly drilled holes, drill remaining wearplate holes into D3391-021.

15- Locating from two fwd wearplate holes drilol remaining 6 wearplte holes in D3391-021 using DT8937

16- Open 2 fwd wearplate holes in D3391-023 to .250" dia.

17- counterbore two aft wearplate holes in D3391-021 as per dwg

18- Open 12 wearplate holes in D3391-021 to 0.297" dia.

19-Deburr and blow out all chips from inside tube

11-6-14

W/O:	<u>-</u>		WORK ORDER CHANGES											
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Work Order ID 70180

Monday, May 30, 2011 3:08:22 PM



Page 3

Item ID:

D3391-023

Accept

Setup Start

Stop



Revision ID:

Item Name: Mid Tube Assembly

6/1/2011

Start Oty: 1.00

Req'd Qty: 1.00

Cust Item ID: Customer:

Tool ID

Required Date: 6/10/2011 Reference:

Start Date:

Approvals:

Process Plan:

Date: ____

Tooling:

Date:

Tool # Plan

Code

Run Start

Reject

Qty



QC:

Date:____

SPC (Y/N):

Date:

Stop

Reject

Number

Insp.

Stamp

Sequence ID/ Work Center ID

110

Quality Control

Operation Description

QC5- Inspect part completeness to step on W/O

Set Up/ **Run Hours**

0.00

120



HandFinish

Hand Finishing

Chemical Conversion Coat per QSI005 4.1

Memo

0.00

Memo

11-6-15

Accept

Qty

0.00

130



Quality Control

QC3- Inspect Part Finish

0.00

Memo

0.00

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Insp.

Monday, May 30, 2011 3:08:22 PM D3391-023 Item ID: Accept Setup Start **Revision ID:** Stop Item Name: Mid Tube Assembly Start Date: 6/1/2011 Start Oty: 1.00 **Cust Item ID:** Required Date: 6/10/2011 Req'd Qty: 1.00 **Customer:** Reference: Run Start Process Plan: Date: _____ Approvals: Tooling: Date: Stop Date: QC: SPC (Y/N): Date: Sequence ID/ Operation Set Up/ **Tool ID** Tool # Plan Accept Reject Reject Work Center ID Description Qty **Run Hours** Code **Qty** Number Stamp 140 0.00 Skidtubes Skidtubes 0.00 Memo Skidtubes 1-Open float bag holes as per dwg 2-C'sink float bag holes as per dwg 3- Prepare tube for welding 4-Bond web in place as per Dwg D3391 & QSI 015. Adhere for 12 hours) A/R Sikaflex exp: 12/0: 15 batch#: M 11 6945 150 QC5- Inspect part completeness to step on W/O 0.00 BC11/06/17 QC 0.00 Memo Quality Control 160 0.00 Skidtubes Skidtubes 0.00 Memo Skidtubes 1-Weld crossbolt spacer as per dwg D3391 & OSI 004 AR 117456

2-grind weld flush

W/O:			WORK ORDER CHANGES									
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Work Order ID 70180

Monday, May 30, 2011 3:08:22 PM



Page 5

Item ID:

D3391-023

Accept

Setup Start

Stop



Revision ID:

Start Date:

Item Name:

Required Date: 6/10/2011

Mid Tube Assembly

6/1/2011

Start Qty: 1.00

Reg'd Oty: 1.00



Date: _____

Cust Item ID:

Customer:

Reference:

Approvals:

QC:

Process Plan: _____

Date:

Tooling:

SPC (Y/N):

Date:

Date:

Run Start

Qty

Stop



Sequence ID/ Work Center ID

170

QC

Quality Control

Operation Description

QC10- Inspect visual per QSI004- ground welds

Set Up/ **Run Hours**

Tool ID

Tool # Plan Code

Accept Qty

Reject Reject Number Stamp

Insp.

Memo

180

QC

Quality Control

QC5- Inspect part completeness to step on W/O

Memo

185

HandFinish

Hand Finishing

Pressure Wash per QSI005 4.3

0.00

Memo

0.00

AND REALODINE AS PER PAR09-043

W/O:			W	ORK ORDER CHANG	ES				
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Work Order ID 70180

Monday, May 30, 2011 3:08:23 PM



Page 6

Item ID:

D3391-023

Accept

Tool # Plan

Code

Setup Start

Stop

Revision ID:

Mid Tube Assembly Item Name:

Start Date:

6/1/2011

Start Qty: 1.00 Req'd Oty: 1.00

Cust Item ID:

Customer:

Tool ID

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start

Reject

Qty

Accept

Qty



Required Date: 6/10/2011

QC:

Date:

SPC (Y/N):

Date:

Stop

Insp.

Stamp

Sequence ID/ Work Center ID

190

Powdercoat

Powder Coating

Operation Description

White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum

M116964.

Memo

START TIME: 3 OVEN TEMPERATURE FINISH TIME:

Set Up/ **Run Hours**

0.00

0.00

200

QC

Quality Control

QC3- Inspect Part Finish

0.00

Memo

1 \$ ll 1/06/21

Reject

Number

BD 11-6-20

0.00

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Monday, May 30, 2011 3:08:23 PM



Page 7

Insp.

Stamp

D3391-023 Item ID: Accept Setup Start Revision ID: Stop Item Name: Mid Tube Assembly **Start Date:** Start Qty: 1.00 6/1/2011 **Cust Item ID: Required Date:** 6/10/2011 Req'd Qty: 1.00 **Customer:** Reference: Run Start Process Plan: Date: Approvals: Tooling: Date: Stop Date: _____ QC: SPC (Y/N): Date: Sequence ID/ Operation Tool ID Tool # Plan Set Up/ Accept Reject Reject **Work Center ID** Description **Run Hours** Qty Code **Oty** Number 210 0.00 1 & Mulo6/21 Skidtubes Skidtubes 0.00 1- insert D3391-021 into D3391-23 Skidtubes 2-insert T-pins into first and third fwd saddle holes 3- ON FIRST SIDE ONLY drill out 2nd and forth fwd saddles holes to 0.500" as per DSI 9364 4- remove T-pins and locate DT9415 from first and third crossbolt hole using Tpins and clekos 5- ON 2ND SIDE ONLY ream out 2nd and forth saddle hole to 0.499". Remove DT9415 6- deburr, re-alodine and blow out chips → 7- press fit D3591-1 spacers using DT9416 starting from 0.500" side 220



Quality Control

QC5- Inspect part completeness to step on W/O

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Memo

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Work	Order II	70180

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Page 8

Item ID:

D3391-023

Accept

Setup Start

Required Date: 6/10/2011

Revision ID: Item Name:

Mid Tube Assembly

Start Date:

6/1/2011

QC:

Start Qty: 1.00

Req'd Qty: 1.00



Date:

Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

Date: _____

Tooling:

SPC (Y/N):

Date:

Date:

Run Start



Stop

Stop

Sequence ID/ **Work Center ID**

230

HandFinish

Hand Finishing

Operation Description

HandFinishing

✓ Install Inserts as per Dwg

Set Up/ **Run Hours**

0.00

Tool ID

Tool # Plan Code

Accept Qty

Reject Qty

Reject Number

Insp. Stamp

Memo

Memo

0.00

240



Quality Control

QC5- Inspect part completeness to step on W/O

0.00

D ulo6/21

250



Packaging

Identify as per dwg & Stock Location: WIO

0412-742-043/B70/79 1 Ø Maloeler

Memo

0.00

Packaging

W/O:			V	ORK ORDER CHANGI	ES				
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Work Order ID 70180

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Item ID:

D3391-023

Accept



Setup Start

Stop



Revision ID:

Item Name:

Mid Tube Assembly

Start Date:

Required Date: 6/10/2011

6/1/2011

Start Qty: 1.00

Req'd Oty: 1.00



Cust Item ID:

Customer:

Reference:

Process Plan:

Date:

Tooling:

Date:

Run Start

Approvals:

QC:

Date:

SPC (Y/N):

Set Up/

Date:

Tool ID

Tool # Plan

Code

Reject Accept Qty Qty

Reject Number

Insp. Stamp

Sequence ID/ **Work Center ID**

260

QC

Quality Control

Operation Description

QC21- Final Inspection - Work Order Release

Memo

Run Hours

0.00

0.00

Stop

Part No:			W	ORK ORDER CHANG	ES				
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Picklist Print

Monday, May 30, 2011 3:08:17 PM

Work Order ID: 70180

Parent Item:

D3391-023

Parent Item Name: Mid Tube Assembly



Start Date: 6/1/2011

Start Qty: 1.00

Required Date: 6/10/2011

Required Qty: 1.00

Comments:

IPP A□05.10.20□New Issue□

IPP B□06.02.10□ECN773 dwg rev.D

 $EC\Box$

IPP C 07.03.20 07.03.28 re-format IPP D

EC EC

KJ/EC□

EC

IPP E | 07.10.31 | ecn 1053P

IPP Rev:F ECN 1056 07-11-13 DD verified by: EC IPP Rev:G 08-09-08 new process (ecn 08-510) DD verified by:EC

IPP Rev:H 08-09-10 revH as per dwg DD verified by:EC

rev F dwg

IPP Rev: I 08-11-13 Removed steps per w/o, QC KJ verified by: ec IPP Rev: I add in seq 140 expire date & h# sikaflex DD 10.02.17 verified by EC

	icev.s add in seq 1-	to expire date webs	Sikali	X DD 10.02.	17 verified by.	EC							
Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D2500-1-100 Skidtube Extrusion		Manufactured	No			100	Each	88.0000	1	1			
				Location HALL	37065 50251	<u>Loc</u>	Oty 88 13 75	Loc Code	<u> </u>)	DD	//-	6-13
D3391-021 Fwd Tube Assembly		Manufactured	No	<i>j</i>	37017	100 2	Each	0.0000			P	11-0	6-14

D3389-1

Web

Manufactured No

140

Each

3.0000

Location Loc Oty Loc Code LG 68999 2

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Monday, May 30, 2011 3:08:17 PM

Work Order ID: 70180 D3391-023 Parent Item: Parent Item Name: Mid Tube Assembly Start Date: 6/1/2011 Required Date: 6/10/2011 Required Qty: 1.00 Start Qty: 1.00 D3681-1 Manufactured No 160 Each 32.0000 5 Spacer Location Loc Qty Loc Code LG 32 68958 2 69516 30 D3591-1 Manufactured No 210 Each 43.0000 ulog(21 Bushing Location Loc Qty Loc Code ST068 43 57350 6 66147_ 37 ALS4-1032-130 Purchased No 230 Each 2,232.000 20 ... Insert Location Loc Qty Loc Code ST281 242 117331 242

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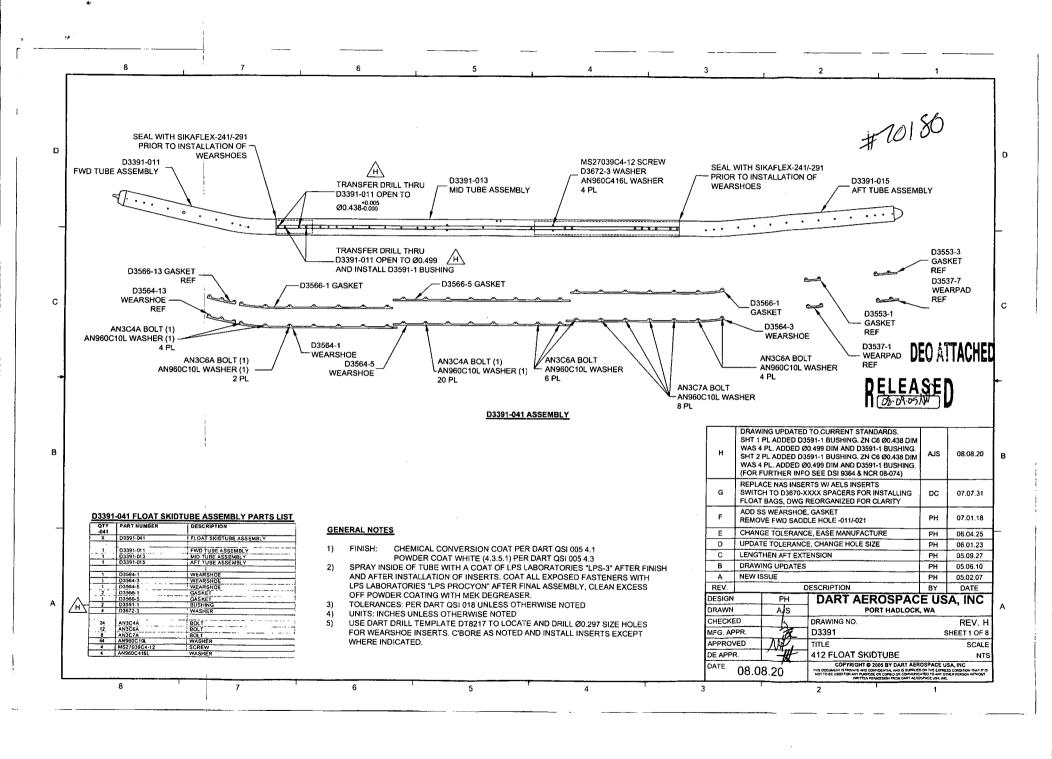
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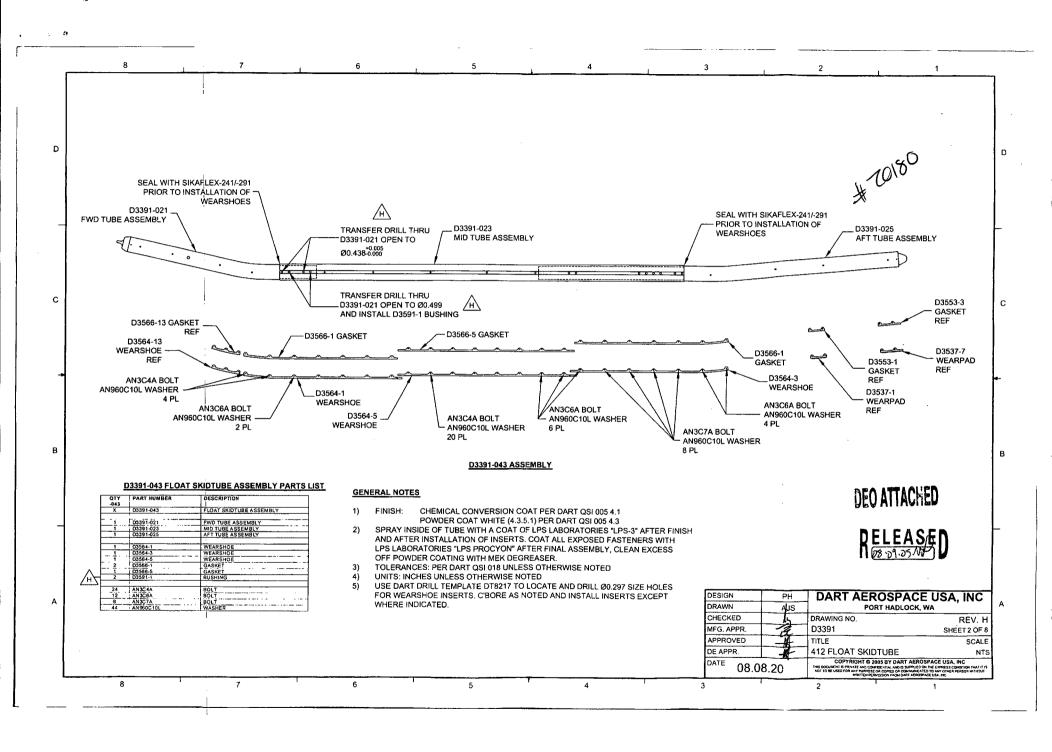
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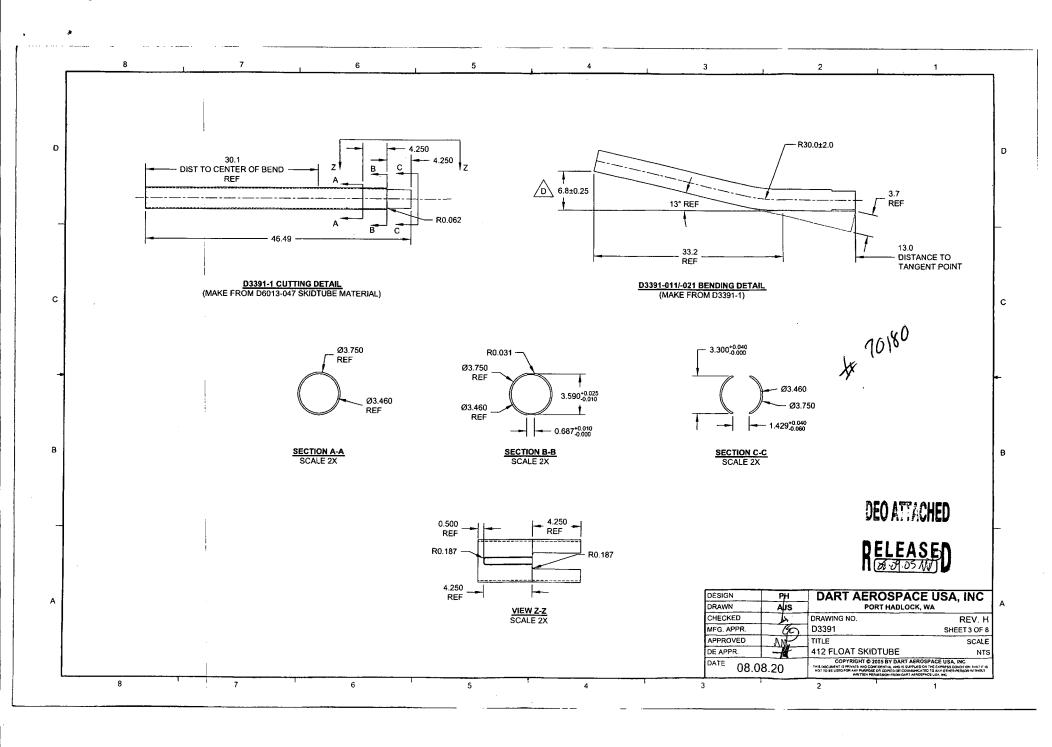


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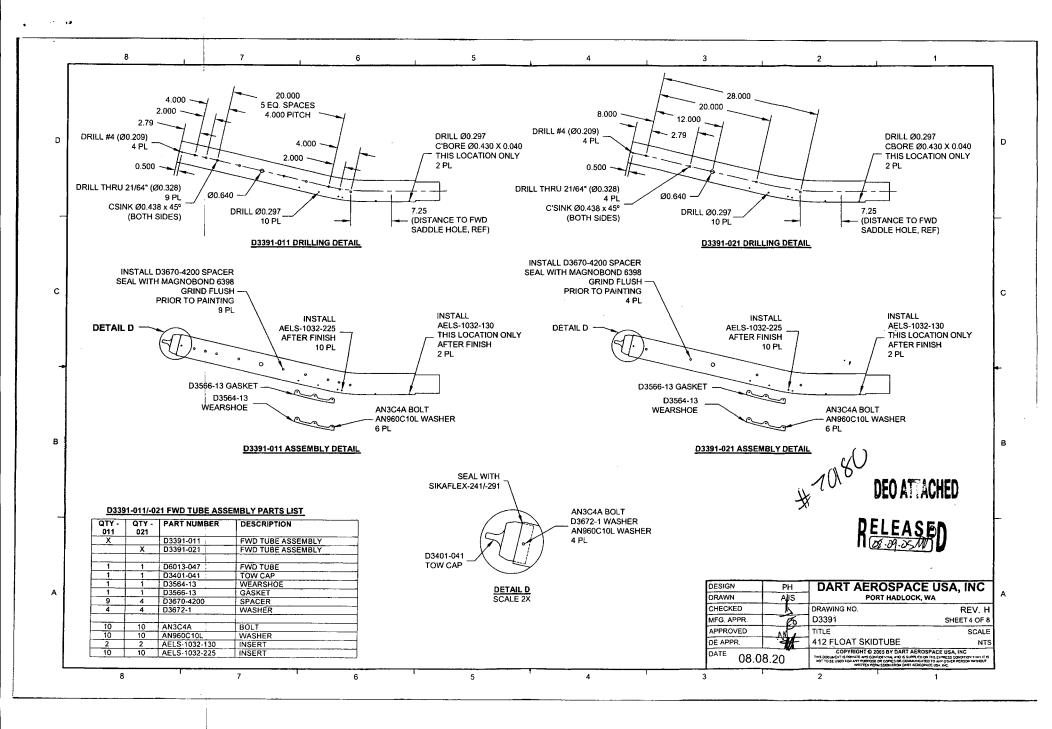


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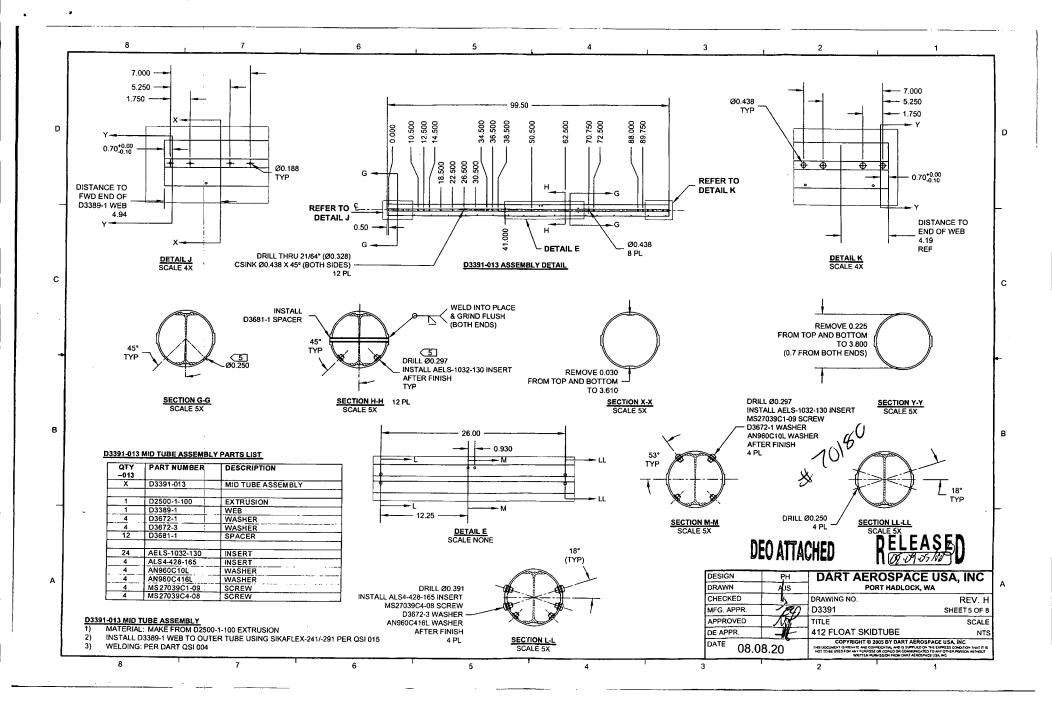


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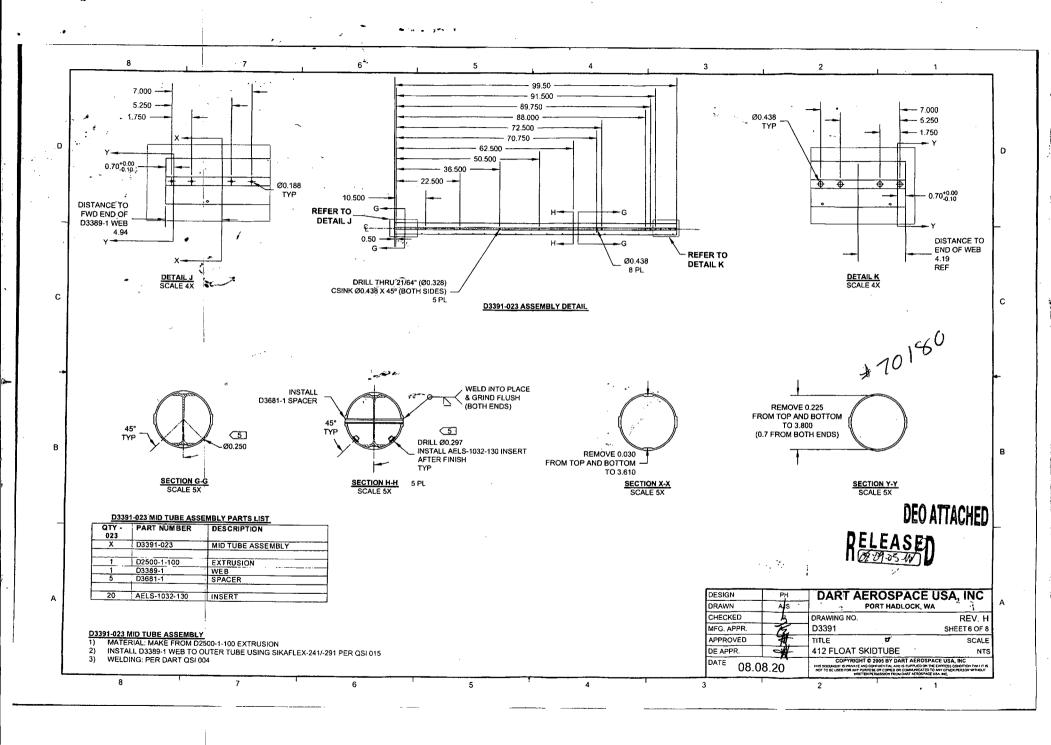


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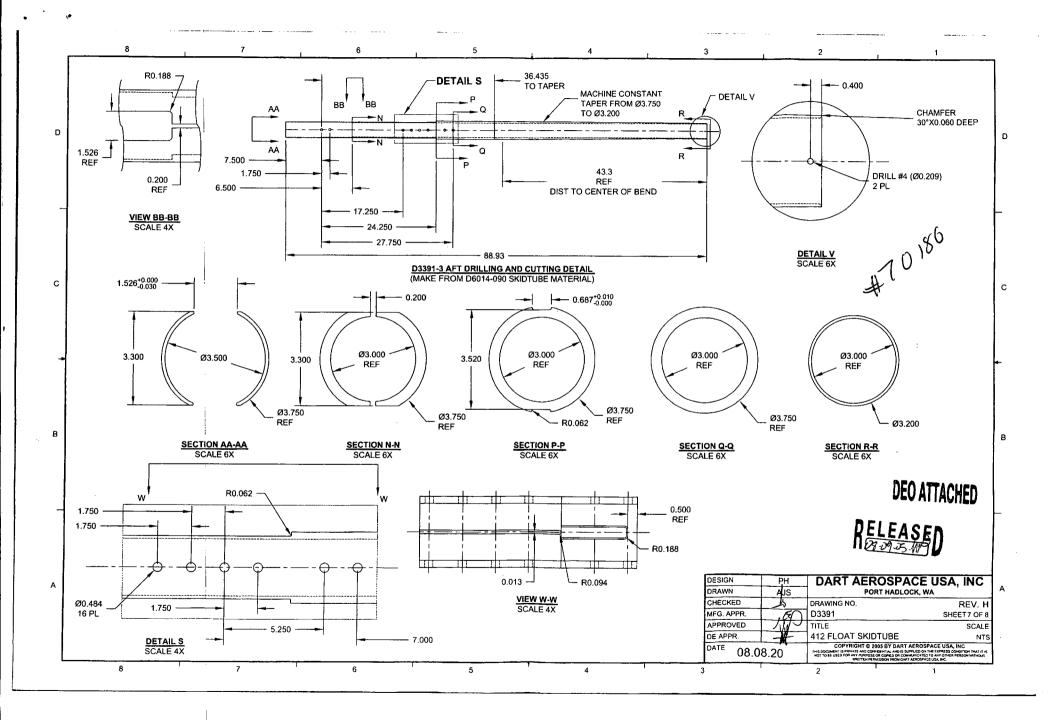
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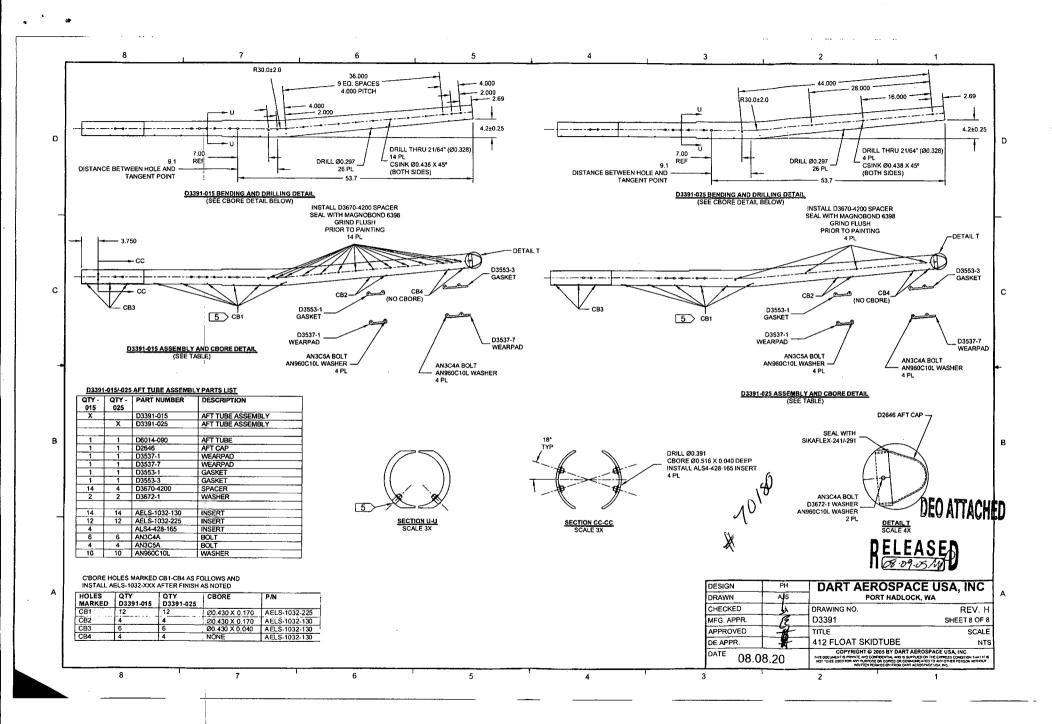
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NOTE: Date & initial all entries

DRAWING N	10.	TITLE		REV. H	DART A	ROSPAC	E USA, INC D.E.	O. NO.		SHEET	NO.		SCALE
D3391		412 FLOAT	SKIDTUBE	,	ENGI	NEERING	ORDER D33	91-H-1		SHEET	1 OF, 1		NTS
DRAWN	_ (1))	CHECKED	4	MFG. AP	PR. 🏡	APPROV	ED MA	DE /	APPR.	#>		
DATE	09.09.	23	DATE	04.04.24	DATE	09/09/2	25 DATE	09/09/3	D DAT	Έ (29/09	30	

PURPOSE:

LPS-3 IS NO LONGER USED DURING ASSEMBLY OF D3391-041/-043 SKIDTUBES.

CHANGE:

AMEND NOTE 2 OF D3391-041/-043 SKIDTUBE ASSEMBLIES (ZN A6-1, A6-2) AS FOLLOWS:

2) SPRAY INSIDE OF TUBE WITH A COAT-OF-LPS LABORATORIES "LPS-3" AFTER FINISH-AND AFTER INSTALLATION OF INSERTS. COAT ALL EXPOSED FASTENERS WITH LPS LABORATORIES "LPS PROCYON" AFTER FINAL ASSEMBLY, CLEAN EXCESS OFF POWDER COATING WITH MEK DEGREASER.

DELEASED 2010 -02- 0 2

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W/O:			V	ORK ORE	DER CHAN	GES	·				
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NO. 256

AWS D17.1.2001 QUALIFICATION TEST RECORD

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Visual:	pass[4] fail[]
Penetration:	pass[fail[]
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UNACCEPTABLE	
Cracks:	pass[] fail[]
Undercut:	pass[1] fail[]
Pin holes:	pass[Y fail[]
Overlap (cold lap)	pass[V] fail[]
Porosity (surface):	pass[1] fail[]
Coloration:	pass[] fail[]
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The above named individual is qualified in accordance with AWS D17.1.2001 to weld

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